

IN THE SPECIFICATION:

Page 1, before line 3, the paragraph beginning with "The invention relates" insert the following title and paragraph:

- PRIORITY CLAIM

This is a national stage of PCT application No. PCT/FI2004/000637, filed on October 28, 2004. Priority is claimed on application No. 20030402, Filed in Finland on October 28, 2003.

BACKGROUND OF THE INVENTION-

Page 1, amend the paragraph beginning at line 3 as follows:

The invention relates to a spray coating unit according to the preamble of claim 1 for treating a moving paper or board web with a treating agent. A spray coating unit of this type comprises an application chamber, through which the web to be treated is adapted to move, and at least one row of nozzles comprising at least one nozzle for spraying the treating agent on the surface of the web in an application chamber.

Page 2, amend the paragraph beginning at line 13 as follows:

As the coat mix, the surface size or some other treating agent in spray coating is spread on the web as a jet of drops, which in a free space flies over the distance between the tip of the nozzle and the web to be treated, a problem of the coating mist spreading into the ambient air occurs in a practical coating process. Accordingly, the spray nozzles must be placed in a casing. The mist of treating agent condensates on the surfaces of the application chamber of the casing, from where it must be collected and the entry of large condensed drops to the web must be prevented. Neither should any condensed treating agent be allowed in the spray jet. The surfaces of the application chamber are cooled down to a temperature below the condensation point of the condition prevailing in the application chamber. In that case, treating agent is condensed from the mist on the cooled surfaces, flowing downwards along the surfaces. The flowing liquid film collects mist and prevents the treating agent from drying or solidifying into a solid matter on the surface of the plate. The higher condensation point is ~~the higher~~, the moister the air in the

application chamber is. To increase the condensation point, solutions have been developed, wherein humid, moisturized air or steam is blown into the application chamber.

Page 3, before line 12, the paragraph beginning with "The purpose", insert the following title:

--SUMMARY OF THE INVENTION--

Page 3, delete lines 17 to 20, the two paragraphs beginning "More specifically," and "Furthermore, the".

Page 4, before line 3, the paragraph beginning with "In the following", insert the following title:

--BRIEF DESCRIPTION OF THE DRAWINGS--

Page 4, before line 6, the paragraph beginning with "The application", insert the following title:

--DETAILED DESCRIPTION OF THE PRESENTLY PREFERRED EMBODIMENTS--

Page 6, amend the paragraph beginning at line 23 as follows:

Alternatively, water can be atomized into drops by means of compressed air that is lead into the nozzle 15. Water can also be atomized into drops with the aid of an oscillating crystal placed in the nozzle 15. The crystal that oscillates at a high frequency of about 40 kHz, for example, atomizes the water into droplets in the nozzle 15. The drop size of the water mist thus formed is smaller than that in [[a]] atomization carried out by water pressure or air pressure only, which is why the mist spreads more evenly in the application chamber P2. The average drop size of the water mist formed by the oscillator is typically 1 - 20 µm. The drop size can be adjusted by changing the oscillation frequency of the oscillator.

Page 7, amend the paragraph beginning at line 7 as follows:

The amount of water sprayed into the application chamber P2 ~~form~~ from the nozzles 15 is preferably so large that the moisture content of the air in the application chamber becomes so high that its condensation temperature is higher than the temperature of the surfaces that come into contact with air. In that case, the moisture of the air in the application chamber P2 condenses effectively on the surfaces of the application chamber. Typically, sufficient moisture content is reached, when the amount of water sprayed into the application chamber is 5 – 10 g per cubic meter of air coming to the application chamber P2.

Page 8, line 1, change “CLAIMS:” to --What is claimed is:--.